



## DESCRIPTION

This Document is an application for a utility patent as offered by the U.S. patent and Trademark office.

## HISTORY OF PROCESS

Posts that anchor the coronal replacement material for endodontically treated human teeth to remaining root structure are needed for restoring these teeth and incidences of iatrogenic root fracture during post placement are well documented in the dental literature.<sup>i</sup> Also, due to removal of tooth structure that occurs during endodontic treatment, endodontically treated human teeth are predisposed to root fractures of this type.<sup>ii</sup>

## DESCRIPTION OF DRAWING

Enclosed please find an 8.5" x 11" drawing entitled "Sleeve and Post System" showing the specifications of the items described.

## DESCRIPTION OF INVENTION

A Process to Prevent Fracture of Endodontically Treated Teeth During Post Placement in restoring these teeth is created when a system using a sleeve made of metal or other machined materials; whose constant inner and variable, to match varying post spaces, outer diameters are threaded, is first passively cemented into the post space of a human tooth root's pulp canal after endodontic treatment. Then a matching, integrally threaded post made of an identical material, that has a single side slot running from its tip to its coronal portion; which portion can accept a second integrally threaded, matching sleeve for anchorage and contains two parallel sided flat areas traversed by cross holes, is rotated through such a sleeve until it contacts endodontic filling material and is subsequently held in place with cement. Post insertion, that is: rotation through sleeve until contact with endodontic filling material and subsequent cementation, is accomplished using a knurled delivery tool with a matching, internally threaded shank that accepts such a post.